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	Application No.	Applicant(s)
Notice of Allowability	10/617,661	IKEDA ET AL.
Nouce of Allowability	Examiner	Art Unit
	Allan R. Wilson	2815
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap) or other appropriate communication IGHTS. This application is subject to	oplication. If not included n will be mailed in due course. THIS
1. A This communication is responsive to the Election filed on 1	7 December 2004.	
2. The allowed claim(s) is/are <u>1-20</u> .		
3. The drawings filed on 14 July 2003 are accepted by the Ex	caminer.	
 4. Acknowledgment is made of a claim for foreign priority unas a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date ldentifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposit of the d	son's Patent Drawing Review (PTO s Amendment / Comment or in the C .84(c)) should be written on the drawir he header according to 37 CFR 1.121(c) sit of BIOLOGICAL MATERIAL r	Office action of ngs in the front (not the back) of (d). must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendr	Patent Application (PTO-152) (PTO-413),

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Election/Restrictions

Upon further review, the restriction is withdrawn.

REASONS for ALLOWANCE

The following is an examiner's statement of reasons for allowance:

A close prior art, Kimura et al. (U.S. Patent No. 5,452,315), discloses most of the limitations of the claims, but fails to show at least a semi-insulating layer, a first-conductivity-type buried layer and a carrier-depleted layer consecutively formed as viewed from said semiconductor substrate.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Irikawa et al. (illustrates an InP current blocking layer), Knight et al. (illustrates a DFB laser with a quaternary current blocking layer) and Yamada (illustrates a modulator).

Field of Search	Date
U.S. Class and subclass:	
257/14, 21, 466	January 19, 2005
Other Documentation:	
None	N/A
Electronic data base(s):	
EAST (USPAT, US-PGPUB, JPO, EPO, Derwent, IBM TDB)	January 19, 2005

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Any inquiry concerning this communication or earlier communications from an examiner should be directed to Primary Examiner Allan Wilson whose telephone number is (571) 272-1738. Examiner Wilson can normally be reached 7:00-4:00 Monday-Thursday and 6:00-3:00 on Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allan R. Wilson Primary Examiner

19 January 2005